

Application Serial No.: 10/735,255

Applicant: Seppo Nissilä

Amendment After Allowance dated April 12, 2006.

**LISTING OF CLAIMS**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A method for coding heart rate information, the method comprising:

measuring a person's heart beat intervals during a physical exercise;

storing the measured heart beat interval information;

packing the measured heart beat interval information;

coding at least a portion of the packed heart beat interval information into a format that is presentable after the exercise as a sound collage such that the rhythm of the sound collage depends on the measured heart beat intervals, the duration of the sound collage being shorter than the time spent for measuring the heart beat intervals.

2. (Original) The method of claim 1, wherein the step of coding comprises: selecting a musical genre of the sound collage to be used in coding.

3. (Original) The method of claim 1, wherein the music of the sound collage to be coded consists of digital sound packets that can be added to one another in temporal sequence and/or combined by summing at a given time instant.

4. (Original) The method of claim 1, wherein the step of coding comprises: changing the sound scale of the music in the sound collage on the basis of changes in the length of the heart beat intervals.

5. (Original) The method of claim 1, wherein the step of coding comprises: augmenting the sound scale of the music in the sound collage in accordance with the duration of the heart beat interval measurement.

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6. (Original) The method of claim 1, wherein the step of coding comprises: changing the rhythmical complexity of the music in the sound collage on the basis of the variation rate of the heart beat intervals.

7. (Original) The method of claim 1, wherein the step of coding comprises: changing the volume of the music in the sound collage on the basis of the measured lengths of the heart beat intervals.

8. (Original) The method of claim 1, wherein the coding is performed after the physical exercise on the whole heart beat interval data collected from the physical exercise.

9. (Original) The method of claim 1, wherein the step of coding comprises: generating from the sound collage music a sound collage that can be stored in a storing means.

10. (Previously Presented) An arrangement for coding heart rate information, comprising:

means for measuring a person's heart beat intervals;  
means for storing the measured heart beat interval information;  
means for packing the measured heart beat interval information;  
means for coding at least a portion of the packed heart beat interval information stored in the storing means into a sound collage, the sound collage being shorter in duration than the time spent measuring the heart beat intervals, the coding means comprising means for selecting the rhythm for music in the sound collage on the basis of the measured heart beat intervals, the coding means comprising means for selecting a musical genre of the sound collage to be used in the coding.

11. (Cancelled)

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12. (Original) The arrangement of claim 10, wherein the coding means comprise means for joining together digital sound packets that can be added to one another in temporal sequence and/or combined by summing at a given time instant.

13. (Currently Amended) An arrangement[[,]] for coding heart rate information, comprising:

means for measuring a person's heart beat intervals;

means for storing the measured heart beat interval information;

means for packing the measured heart beat interval information;

means for coding at least a portion of the packed heart beat interval information stored in the storing means into a sound collage, the sound collage being shorter in duration than the time spent measuring the heart beat intervals, the coding means comprising means for selecting rhythm for the music in the sound collage on the basis of the measured heart beat intervals, ~~the coding means comprising means for selecting a musical genre of the sound collage to be used in the coding~~, the coding means comprising means for changing the sound scale of the music in the sound collage on the basis of changes in the length of the heart beat intervals.

14. (Currently Amended) An arrangement[[,]] for coding heart rate information, comprising:

means for measuring a person's heart beat intervals;

means for storing the measured heart beat interval information;

means for packing the measured heart beat interval information;

means for coding at least a portion of the packed heart beat interval information stored in the storing means into a sound collage, the sound collage being shorter in duration than the time spent measuring the heart beat intervals, the coding means comprising means for selecting rhythm for the music in the sound collage on the basis of the measured heart beat intervals, ~~the coding means comprising means for selecting a musical genre of the sound collage to be used in the coding~~, the coding means comprising means for changing the sound

scale of the music in the sound collage in accordance with the duration of the heart beat interval measurement.

15. (Currently Amended) An arrangement[[],] for coding heart rate information, comprising:

means for measuring a person's heart beat intervals;

means for storing the measured heart beat interval information;

means for packing the measured heart beat interval information;

means for coding at least a portion of the packed heart beat interval information stored in the storing means into a sound collage, the sound collage being shorter in duration than the time spent measuring the heart beat intervals, the coding means comprising means for selecting rhythm for the music in the sound collage on the basis of the measured heart beat intervals, ~~the coding means comprising means for selecting a musical genre of the sound collage to be used in the coding~~, the coding means comprising means for changing the rhythmical complexity of the music in the sound collage on the basis of the variation rate of the heart beat intervals.

16. (Currently Amended) An arrangement[[],] for coding heart rate information, comprising:

means for measuring a person's heart beat intervals;

means for storing the measured heart beat interval information;

means for packing the measured heart beat interval information;

means for coding at least a portion of the packed heart beat interval information stored in the storing means into a sound collage, the sound collage being shorter in duration than the time spent measuring the heart beat intervals, the coding means comprising means for selecting rhythm for the music in the sound collage on the basis of the measured heart beat intervals, ~~the coding means comprising means for selecting a musical genre of the sound collage to be used in the coding~~, the coding means comprising means for changing the volume of the music in the sound collage on the basis of the measured the heart beat intervals.

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17. (Original) The arrangement of claim 10, wherein the measurement of the heart rate information takes place during a physically strenuous exercise.

18. (Previously Presented) The arrangement of claim 10, wherein the arrangement comprises means for storing the sound collage in a storing means.

19. (Original) The arrangement of claim 10, wherein the arrangement is a heart rate monitor.

20. (Original) The arrangement of claim 19 wherein the heart rate monitor comprises means for presenting the generated sound collage.

21. (Original) The arrangement of claim 20, wherein the presenting means are a piezo element of the heart rate monitor.